UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



PEPA United States Environmental Protection Office of Pesticide Programs Office of Pesticide Programs

Antimicrobials Division (AD)

January 12, 2015

DP BARCODE:

421962

MRID:

SUBJECT:

GURNEY

REG. NO .:

4822-ANI

DOCUMENT TYPE:

Product Chemistry Review

Manufacturing-use []

OR

End-use Product [X]

INGREDIENTS:

PC Code(s)

CAS Number Active Ingredient(s):

128929

79-33-4

L-Lactic Acid

TEST LAB:

SUBMITTER:

Lewis & Harrison

GUIDELINE:

Group A and B Product Chemistry

ORGANIZATION:

AD\PSB\CTT

REVIEWER:

Lynette T. Umez-Eronini

APPROVED BY:

Karen P. Hicks

APPROVED DATE:

January 12, 2015

COMMENT:

The product is for use on hard non-porous and non-food

contact surfaces.

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United States Environmental Protection Office of Pesticide Programs

Antimicrobials Division (AD)

January 12, 2015

MEMORANDUM

SUBJECT:

Product Chemistry Review for EPA Reg. 4822-ANI

Product Name: GURNEY DP Barcode: 421962

FROM:

Lynette T. Umez-Eronini, Chemist Lynette T. Umez-Euninic Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

THRU:

Karen Hicks, Team Leader

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

TO:

Julia Chao PM #34/Terria Northern

Regulatory Management Branch II

Antimicrobials Division (7510P)

Applicant:

S.C. Johnson & Son Inc.

CODE::

A540 New Product: Non-Fast Track:

DATE DUE:

February 2, 2015

PRODUCT FORMULATION FROM LABEL:

Active ingredient(s):	<u>% by wt.</u>
Lactic Acid	1.77
Inert (Other) Ingredient(s):	_98.23
Total:	100.00

BACKGROUND:

The consultant, Lewis & Harrison on behalf of the registrant, S.C. Johnson & Sons Inc. has submitted an application for registration of a non-integrated end-use product called GURNEY. GURNEY is identical in use and composition to EPA Reg. No. 4822-592. Product specific data for EPA Reg. No. 4822-592 would be used to support the registration for GURNEY. GURNEY is a cleaner, disinfectant and sanitizer for use on hard nonporous and non-food contact surfaces.

The product chemist reviewed the following documents:

- 1. Cover letter from the registrant to EPA, 7/10/2014.
- 2. Proposed Product Label, 7/10/2014.
- 3. Application for Pesticide Registration Form, 7/10/2014.
- 4. Formulators Exemption Statement, 7/10/2014.
- 5. Certification with Respect to Citation of Data, 7/10/2014.
- 6. Data Matrix Forms (Agency and Public versions), 7/10/2014, 3 pages each.
- 7. Basic and Alternate #1, #2, #3, and #4 Confidential Statements of Formula (CSFs), 7/10/2014.

FINDINGS:

1. The nominal concentration of the active ingredient on the Basic (GEN_SOF# 42882);

Alternate #1 (GEN SOF# 43175 and 43176);

Alternate #2 (GEN SOF# 45665);

Alternate #3 (GEN SOF# 45667); and

Alternate #4 (GEN_SOF# 45383) CSFs, 7/10/2014 are consistent with the label.

- 2. The active ingredient source is EPA registered.
- 3. All certified limits meet EPA standard certified limits.
- 4. All ingredients in this formulation are approved for use in pesticide formulations.
- 5. Fragrances that are not listed on the Agency's database have been previously submitted through OPP Pilot Fragrance Notification Program (see CSFs in EPA Reg. No. 4822-592).
- 6. Group A product chemistry data requirements applicable to end-use products have been met (see MRID 48809701 on Data Matrix and Table A below).
- 7. Group B product chemistry data requirements applicable to end-use products have been met (see MRID 48809702 and 49024301 on Data Matrix and Table B below).

CONCLUSION:

Product Science Branch of Antimicrobials Division finds the Basic (GEN_SOF# 42882), Alternate #1 (GEN_SOF# 43175 and 43176), Alternate #2 (GEN_SOF# 45665), Alternate #3 (GEN_SOF# 45667), and Alternate #4 (GEN_SOF# 45383) CSFs, 7/10/2014 to be acceptable. Also, Group A and Group B Product Chemistry data requirements have been met.

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PRODUCT CHEMISTRY REVIEW

1.

<u>C</u>	ONFIDENTIAL STATEMENT OF	FORMULA			
а	. Type of formulation and source i	registration:			
	Non-integrated formulation	system	Yes	[X]	No []
	Are all TGAIs used register	ed?	Yes	[]	No [X]
	Integrated formulation system	em	Yes	[]	No [X]
	If "ME-TOO," specify EPA F	Reg. No. of ex	sisting product:		
	Clearance of inerts for non-food The product is cleared for fo		r 40 CFR §180.9	940 and	
8	180.950.		Yes	[]	No [X]
С	. Physical state of product:			Liquid	
d	. The chemical IDs and analytical ensity, pH, and flammability are c				
В			Yes	[X]	No []
е	. The NCs and CLs are acceptabl	e.	Yes [X]	No []	
f.	Active ingredient L-Lactic Acid	NC(%) 1.77	<u>LCL(%)</u> 1.68	<u>UCL(%</u> 1.86	<u>6)</u>
g	. For products produced by an int	egrated formu	ılation system:		
	Do all impurities of toxicolog Yes [] No []	gical significa Not applica		?	
	 Have all impurities of ≥ 0.19 Yes [] No [] 	% in the produ Not applica		∍d?	

П PRODUCT LABEL a. The active ingredient statement (chemical IDs and NC) is consistent with the CONFIDENTIAL STATEMENT OF FORMULA. Yes [X] No [] b. The formula contains one of the following: 10% or more of a petroleum distillate: Yes [] No [X] 1.0% or more of methyl alcohol: Yes [] No [X] · sodium nitrite at any level: Yes [] No [X] • a toxic List 1 inert at any level: Yes [] No [X] arsenic in any form: No [X] Yes [] c. If "yes" to any of the above, does the inert ingredients statement contain a footnote indicating this? Yes [] No[] Not applicable [X] d. Appropriate warning statement(s) regarding flammability or explosive characteristics of the product are listed on the label. Yes[] No[] Not applicable [X] e. The storage and disposal instructions for the pesticide container are in compliance with PR Notice 84-1 for household use products or PR Notice 83-3 for all other uses. Yes [X] No [] f. The product requires an expiration date at which time the NC falls below the

LCL (based on the 1-year storage stability data or other information). Yes []

No []

Table A: Product Chemistry (Series 830, Group A)

Data Requirements	Acceptance of Information	MRID No.
830.1550 Product Identity ¹	A	Data Matrix (see 48809701)
830.1600 Description of Materials	A	Data Matrix (see 48809701)
830.1620 Production Process ²	NA	
830.1650 Formulation Process ³	A	Data Matrix (see 48809701))
830.1670 Formation of Impurities ⁴	NA	
830.1700 Preliminary Analysis ⁵	NA	
830.1750 Certified Limits ⁶	Α	Data Matrix (see 48809701)
830.1800 Enforcement Analytical Method ⁷	А	Data Matrix (see 48809701)
830.1900 Submittal of Samples	[Samples are to be provided on a case by-case basis for end-use products.]	

Explanation: A=acceptable; N=not acceptable (i.e., item was submitted but is not acceptable); NA=technically not applicable (i.e., not required); G=data gap (i.e., item was not submitted but is required); U=requires upgrading (i.e., item is unacceptable but upgradeable); W=waived; E=EPA estimate.

¹See Confidential Appendix A for additional information.

²For MP/EP products produced by an integrated formulation system.

³For products from a TGAI or MP.

⁴May be waived unless actual/possible impurities are of toxicological concern.

⁵Five batch analysis required for products produced by an integrated formulation system.

⁶If different from standard CLs recommended in 40 CFR 158.175, this should be discussed in Confidential Appendix A.

⁷Abbreviate method used as follows: gas chromatography (GC), infrared (IR), ultraviolet absorption (UV), nuclear magnetic resonance (NMR), etc.

Table B: Physical and Chemical Characteristics (Series 830, Group B)

Physical/Chemical Properties*	Acceptance of Data	Value or Qualitative Description	MRID No.
830.6302 Color	NA		
830.6303 Physical State	Α	Liquid	Data Matrix (see 48809702)
830.6304 Odor	N/A		
830.6313 Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	NA		
830.6314 Oxidation/ Reduction; Chemical Incompatibility	A	No significant oxidizing or reducing action or chemical incompatibility with KMnO ₄ , NH ₄ H ₂ PO ₄ , turpentine or zinc when mixed with test substance at 5°C.	Data Matrix (see 48809702)
830.6315 Flammability/ Flame Extension	А	The flash point was determined to be >97.0°C.	Data Matrix (see 48809702)
830.6316 Explodability	NA	Product is not potentially explosive.	See Chemistry Review of 4822-592, dated 6/29/2012
830.6317 Storage Stability	A	Average concentration of active ingredient remained within certified limits (1.52 to 1.68% wt/wt) after 12 months of storage at 25°C.	Data Matrix (see 49024301)
830.6319 Miscibility ¹	NA	Product is not an emulsifiable liquid and is not to be diluted with petroleum solvents.	Data Matrix (see 48809702)
830.6320 Corrosion Characteristics	А	Product is not corrosive to packaging in PET containers for at least 12 months at 25°C.	Data Matrix (see 49024301)
830.6321 Dielectric Breakdown Voltage	NA	Product is not for use around electrical outlets.	Data Matrix (see 48809702)
830.7000 pH ²	A	3.23 ± 0.1 at 25.0±0.2°C	Data Matrix (see 48809702)

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Physical/Chemical Properties*	Acceptance of Data	Value or Qualitative Description	MRID No.
830.7050 UV/Visible Absorption	NA		
830.7100 Viscosity	A	1.0 ± 0 cP & 1.2 ± 0.071 cP at 30 and 60 rpm, respectively, at 20.0 ± 0.050°C 0.65 ± 0.070 cP & 0.65 ± 0.0 cP at 30 and 60 rpm, respectively at 40.0 ± 0.050°C	Data Matrix (see 48809702)
830.7200 Melting Point/Melting Range	NA		
830.7220 Boiling Point/Boiling Range	NA		
830.7300 Density/Relative Density/Bulk Density	А	Relative Density - 1.0059 ± 0.0000 Density – 1.0041±0.0000 g/ml, at 20°C	Data Matrix (see 48809702)
830.7370 Dissociation Constants in Water	NA		
830.7550/830.7560/830.7570 Partition Coefficient	NA		
830.7840/830.7860 Water Solubility	NA		
830.7950 Vapor Pressure	NA		

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^{*} Provide brief description, e.g., color – yellow or property value, e.g., density 1.25 g/cc. Unless otherwise indicated, the property should be at 25°C.

¹If product is an emulsifiable liquid

²If product is dispersible with water